



"Attorney Work Product"
"Prepared at the request of
counsel to assess potential
liability."

UNION CARBIDE CORPORATION P.O. BOX 180, SISTERSVILLE, WEST VIRGINIA 26175
Silicones and Urethane Intermediates
SILICONES PLANT

September 14, 1984

MEMORANDUM TO: R. L. Foster

COPIES TO: A. W. Boyd
F. E. Dailey
W. V. Summers

SUBJECT: Mitre Score for Inactive Landfills

Enclosed you will find the mitre scores calculated for our two inactive landfill sites. These are the two inactive sites listed on the 1981 CERCLA 103(c) notification.

The north site appears to be the most potentially hazardous. Although no definite evidence can be found, it is possible that up to 250,000 pounds of PCB's are buried at this site. Also, some acrylonitrile, methacrylate polymers, and toluene are buried at the north site. The area contains both full and empty drums, and some of the full drums may contain chlorosilanes which could hydrolyze and form HCl. The soil in this area is primarily fine sand and silty clay down to the groundwater, making potential contamination of the groundwater a concern. However, wells at this site when last monitored in 1981 showed no significant leaching or contamination and no PCB's were found. Approximately 7,000 drums were buried at this site.

The south site appears to be of low concern. All drums at this site were punctured prior to burial, allowing the chlorosilanes, oils, resins, and copper-silicon mass to drain. Presumably, the chlorosilanes hydrolyzed at the time of burial. The south site is made up primarily of silty clay (relatively low permeability). Thus, contamination of the groundwater is not as significant a concern as at the north site. Approximately 400 drums are buried at the south site.

Surface water from both sites can reach the plant's Ranney wells, although monitoring indicates that this is not occurring. This significantly increased the surface water score of both sites due to the plant population being served from a point so close to where possible contaminants might be released.

Our estimates for remedial actions are based upon the knowledge we have of the area. No studies have been done which might indicate the feasibility of one remedial action above another.

MPM0002031

EPA003756

If you have any questions about this report, please contact us at extension 377 and 286, respectively.

Sincerely yours,

Dennis R. Heintzman

Dennis R. Heintzman

E. L. Doerflein

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DRH:ELD:slc
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